

Appl. No. 10/711,617
Amdt. dated May 08, 2007
Reply to Office action of February 08, 2007

Amendments to the Claims:

Listing of Claims:

Claim 1 (currently amended): A liquid crystal display module comprising:

5 a glass substrate having a display area and a peripheral area, a plurality of scan lines and a plurality of data lines is separately formed on the display area along horizontal and vertical directions;

at least a gate driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the gate driver chip transmits signals to the scan lines via a plurality of output terminals, and thickness of the gate driver chip is
10 less than 0.3 mm; and

at least a source driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, the source driver chip transmits signals to the data lines via a plurality of output terminals, and thickness of the source driver chip is less than 0.3 mm.

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Claim 2 (canceled)

Claim 3 (original): The liquid crystal display module of claim 1, wherein the gate driver chip and the source driver chip are mounted on the glass substrate with an
20 adhesive material.

Claim 4 (original): The liquid crystal display module of claim 3, wherein the adhesive material includes an anisotropic conductive film.

25 Claim 5 (original): The liquid crystal display module of claim 1 further comprising at least a flexible printed circuit board mounted on the peripheral area.

Claim 6 (currently amended): A liquid crystal display module comprising:

30 a glass substrate having a display area and a peripheral area, a plurality of scan lines and a plurality of data lines are separately formed on the display area along

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horizontal and vertical directions;

at least a gate driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip on glass technology~~, the gate driver chip transmits signals to the scan lines via a plurality of output terminals, and the gate driver chip is bendable; and

- 5 at least a source driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip on glass technology~~, the source driver chip transmits signals to the data lines via a plurality of output terminals, and the source driver chip is bendable.

10 Claim 7 (canceled)

Claim 8 (original): The liquid crystal display module of claim 6, wherein thickness of the gate driver chip is less than 0.3 mm.

- 15 Claim 9 (original): The liquid crystal display module of claim 6, wherein thickness of the source driver chip is less than 0.3 mm.

Claim 10 (original): The liquid crystal display module of claim 6, wherein the gate driver chip and the source driver chip are mounted on the glass substrate with an
20 adhesive material.

Claim 11 (original): The liquid crystal display module of claim 10, wherein the adhesive material includes an anisotropic conductive film.

- 25 Claim 12 (original): The liquid crystal display module of claim 6 further comprising at least a flexible printed circuit board mounted on the peripheral area.

Claim 13 (currently amended): A liquid crystal display module comprising:
a glass substrate having a display area and a peripheral area, and a plurality of
30 wires formed on the display area along horizontal and vertical directions; and

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at least a driver chip mounted directly on the peripheral area of the glass substrate ~~with a chip-on-glass technology~~, wherein the thickness of the driver chip is less than 0.3 mm.

- 5 Claim 14 (previously presented): The liquid crystal display module of claim 13, wherein the driver chip is mounted on the glass substrate with an adhesive material.

Claim 15 (previously presented): The liquid crystal display module of claim 14, wherein the adhesive material includes an anisotropic conductive film.

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Claim 16 (previously presented): The liquid crystal display module of claim 13 further comprising at least a flexible printed circuit board mounted on the peripheral area.

- 15 Claim 17 (previously presented): The liquid crystal display module of claim 13, wherein the wires comprise scan lines and data lines.

Claim 18 (previously presented): The liquid crystal display module of claim 17, wherein the driver chip is a gate driver chip, such that the gate driver chip transmits signals to the scan lines via a plurality of output terminals.

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Claim 19 (previously presented): The liquid crystal display module of claim 17, wherein the driver chip is a source driver chip, such that the source driver chip transmits signals to the data lines via a plurality of output terminals.